

Result No.	Score	Query	Match Length	DB ID	Description
1	871	37.6	410	23	ABG97282 Novel human protein
2	653	28.2	131	23	AAU86330 Human polypeptide
3	607	26.2	216	22	ABB89300 Peptide #94 encode
4	607	26.2	216	22	ABB27443 Peptide #221 encode
5	607	26.2	216	22	ABB3292 Peptide #2360 encode
6	607	26.2	216	22	ABB19089 Protein #88 encode
7	607	26.2	216	22	AAM5321 Human brain express
8	607	26.2	216	22	AAM65799 Human bone marrow
9	607	26.2	216	22	AM13361 Peptide #95 encode
10	607	26.2	216	22	AM02606 Peptide #97 encode
					Peptide #93 encode

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Match Length	DB ID	Description
1	871	37.6	410	23	ABG97282 Novel human protein
2	653	28.2	131	23	AAU86330 Human polypeptide
3	607	26.2	216	22	ABB89300 Peptide #94 encode
4	607	26.2	216	22	ABB27443 Peptide #221 encode
5	607	26.2	216	22	ABB3292 Peptide #2360 encode
6	607	26.2	216	22	ABB19089 Protein #88 encode
7	607	26.2	216	22	AAM5321 Human brain express
8	607	26.2	216	22	AAM65799 Human bone marrow
9	607	26.2	216	22	AM13361 Peptide #95 encode
10	607	26.2	216	22	AM02606 Peptide #97 encode
					Peptide #93 encode

Human peptide enco
Novel human connec
Protein #495 enco

Human brain expres

Peptide #221 enco

Peptide #2360 enco

Protein #2465 enco

Human brain expres

Human bone marrow

Peptide #2496 enco

Peptide #2395 enco

Peptide #2471 enco

Human peptide enco

XK related Y (XCRY

Herbicidally activ

Human gene 12 enco

Human albumin fusi

L. helveticus pept

Staphylococcus epi

Human BAI1 protein

Salmonella typhi C

E. coli cellular p

Streptococcus poly

Novel human diagno

Staphylococcus epi

Human seven-transm

B. burgdorferi ant

Neuronal nicotinic

B. burgdorferi ant

Human cholinergic

Drosophila melanog

ALIGNMENTS

RESULT 1

ABB97282 standard; Protein; 410 AA.

ID ABB97282

DT 27-JUN-2002 (first entry)

XX Novel human protein SEQ ID NO: 550

KW Human; antianamic; vulnerary; antiinflammatory; immunomodulator;

KW antifertility; cerebroprotective; cytostatic; rheumatic; gene therapy;

KW neuroprotective; antiparkinsonian; protein therapy; EST; expressed sequence tag.

Homo sapiens.

XX OS

XX XX

XX PN

XX PR 11-SEP-2000; 2000US-0659671.

XX PA (HYSEQ INC.

XX XX

XX PI Tang YT, Liu C, Zhou P, Asundi V, Zhang J, Zhao QA, Ren F;

XX PI Xue AJ, Yang Y, Wehrman T, Drmanac RT;

XX DR WPI; 2002-292408/33.

XX DR ABN32468.

XX DR

XX XX

SUMMARIES

XX 10-SEP-2001; 2001WO-US266015.

XX PD 21-MAR-2002.

XX XX

An isolated polynucleotide for treating diseases associated with its encoded polypeptide such as cancer and multiple sclerosis -
Example 2: SEQ ID NO 550; 509pp; English.

Sequence	410 AA:	37 6%; Score 871; DB 23; Length 410;	45 8%; Pred. No. 8.8e-93; Mismatches 113; Indels 10; Gaps 4;
Query Match	37 6%; Score 871; DB 23; Length 410;	45 8%; Pred. No. 8.8e-93; Mismatches 113; Indels 10; Gaps 4;	
Best Local Similarity	45 8%; Pred. No. 8.8e-93; Mismatches 113; Indels 10; Gaps 4;	45 8%; Pred. No. 8.8e-93; Mismatches 113; Indels 10; Gaps 4;	
Matches	167; Conservative 75; Mismatches 113; Indels 10; Gaps 4;	167; Conservative 75; Mismatches 113; Indels 10; Gaps 4;	
Y	70 TFSPEMFSSIMVOLTLLIFYRDLAKDKPSLFEMLLILQGPVIRCLEAMTKYLTIWKEEQ 129	70 TFSPEMFSSIMVOLTLLIFYRDLAKDKPSLFEMLLILQGPVIRCLEAMTKYLTIWKEEQ 129	
Y	6 TLLESLLPPLCALVQTLIFYRDLRSRDRPVLYLILQPLRCEVFCITY-- FQSGN 62	6 TLLESLLPPLCALVQTLIFYRDLRSRDRPVLYLILQPLRCEVFCITY-- FQSGN 62	
Y	130 EEPYVSLSTRKK-MLJDGEVYLIEVEGHSTRTLAMHRAKYKRMSSQIAQFLGSVPOLTYQL 188	130 EEPYVSLSTRKK-MLJDGEVYLIEVEGHSTRTLAMHRAKYKRMSSQIAQFLGSVPOLTYQL 188	
Y	63 EEPYVSLSTRKK-MLJDGEVYLIEVEGHSTRTLAMHRAKYKRMSSQIAQFLGSVPOLTYQL 188	63 EEPYVSLSTRKK-MLJDGEVYLIEVEGHSTRTLAMHRAKYKRMSSQIAQFLGSVPOLTYQL 188	
Y	189 YVLSIASEVPLGRVILMPLSLSVITYGATLCLNLAQIQTDDYKTRIGLPLEVLCTIWET 248	189 YVLSIASEVPLGRVILMPLSLSVITYGATLCLNLAQIQTDDYKTRIGLPLEVLCTIWET 248	
Y	123 YISVMMQDVTVGSSLMTISLISVYGAIRCNLLAIIKIKYDEBVVKVPLAYCIFLWES 182	123 YISVMMQDVTVGSSLMTISLISVYGAIRCNLLAIIKIKYDEBVVKVPLAYCIFLWES 182	
Y	249 LEITSLRLILVLFSAATLKLAKVPLFLVNLFLILFEPWIKFWRSGAQMPNNIEKNSRSVGT 308	249 LEITSLRLILVLFSAATLKLAKVPLFLVNLFLILFEPWIKFWRSGAQMPNNIEKNSRSVGT 308	
Y	183 FEATRVRVVLFLFTSVLKTWWVFLINPFSFLYWPWIFWCSSGPFPNTIEKALRSVGT 242	183 FEATRVRVVLFLFTSVLKTWWVFLINPFSFLYWPWIFWCSSGPFPNTIEKALRSVGT 242	
Y	309 LVLVISVTLIYAGINFSCHMSAQLRLADRLDVLDGKQNGHMGHLHYSVRLVENVIMVLFK 368	309 LVLVISVTLIYAGINFSCHMSAQLRLADRLDVLDGKQNGHMGHLHYSVRLVENVIMVLFK 368	
Y	243 TIVLCLFLTLTLYGQINMPCMSAVQKLDSPLDISKSHNWQVLLVYMMIRTEENAILLHY 302	243 TIVLCLFLTLTLYGQINMPCMSAVQKLDSPLDISKSHNWQVLLVYMMIRTEENAILLHY 302	
Y	369 FFGVVKVLNLYCHSLTIALQIITAYLISIDPMLLFOYLHPLRSLFTHNVD--- YLHVCYC 424	369 FFGVVKVLNLYCHSLTIALQIITAYLISIDPMLLFOYLHPLRSLFTHNVD--- YLHVCYC 424	
Y	303 LPKTDIYVWCAPLVLVQOLIGYCTAILEFMVYQPFHCKKLFLSSVSEGQWRLRCFC 362	303 LPKTDIYVWCAPLVLVQOLIGYCTAILEFMVYQPFHCKKLFLSSVSEGQWRLRCFC 362	
Y	425 --CHQ 427	425 --CHQ 427	

RESULT 2	
Q	ABB89300 Standard; Protein; 131 AA.
C	ABB89300;
K	24-MAY-2002 (first entry)
T	Human polypeptide SEQ ID NO 1676.
X	Cystostatic; immunosuppressive; nocropic; neuroprotective; antiviral; antiallergic; hepatotropic; antidiabetic; antiinflammatory; antiulcer; vulnery; anticonvulsant; antibacterial; antifungal; antiparasitic; cardiotonic; gene therapy; cancer; immune disorder; cardiovascular disorder; neurological disease; infection; human; secreted protein.
X	Home sapiens.
S	W020190304-A2.
K	29-NOV-2001.

18-MAY-2001; 2001WO-US16450.
 19-MAY-2000; 2000US-205515P.
 (HUMA-) HUMAN GENOME SCI INC
 Birse CE, Rosen CA;
 WPI: 2002-122018/16.
 N-PSDB; ABL89709.
 Novel 1405 isolated polypept
 prevention of neural, immune,
 gastrointestinal, pulmonary,
 disorders -

DB	61	VKLVENAVIMVLFKFXGVKVNLYNCHXLALOLIIAYISGFMLLFFQYLHPLRSLFTH	120
DB	415	NVVDYLHCVCC 425	
DB	121	NVVDYLHCVCC 131	
			RESULT 3
DB	415	ABB27443	
DB	121	ABB27443 standard; Peptide; 216 AA.	
DB		ABB27443;	
DB		AC	
DB		CX	
DB		CX	
DB		01-FEB-2002 (first entry)	
DB		Human peptide #94 encoded by breast cell single exon nucleic acid probe.	
DB		Human; microarray; single exon probe; gene expression; breast	
DB		disease; cancer.	
DB		Homo sapiens.	
DB		WO200157271-A2.	

PD	09-AUG-2001.	DT	01-FEB-2002 (first entry)
XX	30-JAN-2001; 2001WO-US00662.	XX	Peptide #98 encoded by human foetal liver single exon nucleic acid probe.
PP		XX	Human; foetal liver; gene expression; single exon nucleic acid probe.
PR	04-FEB-2000; 2000US-0160312.	KW	
PR	26-MAY-2000; 2000US-0207456.	XX	
PR	03-JUN-2000; 2000US-0608408.	OS	
PR	03-AUG-2000; 2000US-0612366.	XX	Homo sapiens.
PR	21-SEP-2000; 2000US-0234687.	XX	
PR	27-SEP-2000; 2000US-0236359.	PN	WO2015/277-A2.
PR	04-OCT-2000; 2000GB-0024263.	XX	
XX		XX	
PA	(MOLE-) MOLECULAR DYNAMICS INC.	PD	09-AUG-2001.
PI	Penn SG, Hanzel DK, Chen W, Rank DR;	PF	30-JAN-2001; 2001WO-US00669.
XX		XX	
PS	WPI; 2001-496933/54.	PR	04-FEB-2000; 2000US-0180312.
XX		PR	26-MAY-2000; 2000US-0207456.
XX		PR	30-JUN-2000; 2000US-0608408.
PT	New spatially-addressable set of single exon nucleic acid probes.	PR	03-AUG-2000; 2000US-0612366.
PT	PT useful for measuring gene expression in sample derived from human breast, comprises number of single exon nucleic acid probes -	PR	27-SEP-2000; 2000US-0236359.
PT	XX	PR	04-OCT-2000; 2000GB-0024263.
XX		XX	
PS	Claim 27; SEQ ID NO 10411; 327pp + sequence listing; English.	PA	(MOLE-) MOLECULAR DYNAMICS INC.
XX		XX	
PI	The invention relates to a spatially-addressable set of single exon nucleic acid probes for measuring gene expression in a sample derived from human breast and BT 474 cells. The method involves contacting the probes with a collection of detectable labelled nucleic acids derived from mRNA of human breast, and then measuring the label bound to each probe of the microarray. The probes are useful for verifying the expression of regions of genomic DNA predicted to encode proteins. They are useful for gene discovery, and for determining predisposition and/or pronouncing breast disease. Gene expression analysis is useful for assessing the toxicity of chemical agents on cells. The microarray of this invention presents a far greater diversity of probes for measuring gene expression, with far less bias than expressed sequence tag microarrays. The method is suitable for rapid production of functional information from genomic sequence. The present sequence is a peptide encoded by a single exon nucleic acid probe of the invention.	PA	XX
CC	Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences .	XX	
XX		XX	
PS	Sequence 216 AA;	SQ	Sequence 216 AA;
XX		XX	
Qy	Query Match 26.2%; Score 607; DB 22; Length 216;	Qy	Query Match 26.2%; Score 607; DB 22; Length 216;
Db	Best Local Similarity 55.1%; Pred. No. 2.9e-62;	Db	Best Local Similarity 55.1%; Pred. No. 2.9e-62;
Matches 109; Conservative 42; Mismatches 47; Indels 0; Gaps 0;	Matches 109; Conservative 42; Mismatches 47; Indels 0; Gaps 0;	Matches 109; Conservative 42; Mismatches 47; Indels 0; Gaps 0;	Matches 109; Conservative 42; Mismatches 47; Indels 0; Gaps 0;
Qy	213 TYGATLCNMALAIQKYDDYKIRGLPLEVLCITIWRTELETSRLLVLFATLKLKAVPF 272	Qy	213 TYGATLCNMALAIQKYDDYKIRGLPLEVLCITIWRTELETSRLLVLFATLKLKAVPF 272
Db	1 TYGATLCNMALAIQKYDDYKIRGLPLEVLCITIWRTELETSRLLVLFATLKLKAVPF 272	Db	1 TYGATLCNMALAIQKYDDYKIRGLPLEVLCITIWRTELETSRLLVLFATLKLKAVPF 272
Qy	273 LVLNFLLTLEPWTKPWRSQAMNNIENKFSRVTGLVYLISVTTLAIFIASLKLKSIPV 60	Qy	273 LVLNFLLTLEPWTKPWRSQAMNNIENKFSRVTGLVYLISVTTLAIFIASLKLKSIPV 60
Db	61 LLLIYFVSLAPLNEFWKSQAHLGPNKERNNSNNMGTWMLFLTLLYAINFSCHMSAVKL 120	Db	61 LLLIYFVSLAPLNEFWKSQAHLGPNKERNNSNNMGTWMLFLTLLYAINFSCHMSAVKL 120
Qy	333 RLARDLVDKGQWGMGHLYSYVRLVENTIMVLYVKPFGVYKVLNCHSLSIALQLLIVYL 392	Qy	333 RLARDLVDKGQWGMGHLYSYVRLVENTIMVLYVKPFGVYKVLNCHSLSIALQLLIVYL 392
Db	121 QLSDDKLIDGRQWGRHLHYSFQFLENVIMILVRFEGKTLLNCDSLSIQLLIVYLISV 180	Db	121 QLSDDKLIDGRQWGRHLHYSFQFLENVIMILVRFEGKTLLNCDSLSIQLLIVYLISV 180
Qy	393 ISIDFMLLFQYLHPLRS 410	Qy	393 ISIDFMLLFQYLHPLRS 410
Db	181 LATGFMLLFYQYLWQWS 198	Db	181 LATGFMLLFYQYLWQWS 198
RESULT 5		RESULT 5	
ABB3 2592		ABB1 8089	
ID	ABB3 2592 standard; Peptide; 216 AA.	ID	ABB1 8089 standard; Peptid; 216 AA.
XX		XX	
AC		AC	
XX		XX	
XX		DT	23-JAN-2002 (first entry)

XX Protein #88 encoded by probe for measuring heart cell gene expression.
 DE XX AAM53421;
 XX XX
 KW XX 05-NOV-2001 (First entry)
 KW Human brain expressed single exon probe encoded protein SEQ ID NO: 25526.
 KW DE Human brain expressed single exon probe encoded protein SEQ ID NO: 25526.
 KW XX
 KW Human; brain expressed exon; gene expression analysis; probe;
 KW microarray; Alzheimer's disease; multiple sclerosis; schizophrenia;
 KW epilepsy; cancer.
 XX XX
 OS Homo sapiens.
 XX OS
 PN WO200157274-A2.
 XX PN
 PD 09-AUG-2001.
 XX PD
 PP 30-JAN-2001; 2001WO-US00666.
 XX PP
 XX PR 04-FEB-2000; 2000US-0180312.
 XX PR 26-MAY-2000; 2000US-0207456.
 XX PR 30-JUN-2000; 2000US-0207456.
 XX PR 03-AUG-2000; 2000US-0608408.
 XX PR 21-SEP-2000; 2000US-0632366.
 XX PR 21-SEP-2000; 2000US-0632366.
 XX PR 27-SEP-2000; 2000US-0234687.
 XX PR 04-OCT-2000; 2000GB-0024263.
 XX PA (MOLE-) MOLECULAR DYNAMICS INC.
 XX PI Penn SG, Hanzel DK, Chen W, Rank DR;
 XX DR
 XX WPI; 2001-488899/53.
 XX PT Single exon nucleic acid probes for analyzing gene expression in human
 PT hearts -
 XX PS Claim 15: SEQ ID NO 19859; 530pp; English.
 XX
 CC The present invention relates to single exon nucleic acid probes for
 CC measuring human gene expression in a sample derived from human heart (see
 CC ABA21535-ABA41305). The present sequence is a protein encoded by one such
 CC probe. The probes may be used for predicting, measuring and displaying
 CC gene expression in samples derived from the human heart via microarrays.
 CC By measuring gene expression, the probes are useful for predicting,
 CC diagnosing, grading, staging, monitoring and prognosing diseases of the
 CC human heart and vascular system e.g. cardiovascular disease,
 CC hypertension, cardiac arrhythmias and congenital heart disease.
 CC Note: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at [ftp.wipo.int/pub/published_pct_sequences](http://wipo.int/pub/published_pct_sequences).
 XX SQ Sequence 216 AA;
 XX Query Match 26.2%; Score 607; DB 22; Length 216;
 XX Best Local Similarity 55.1%; Pred. No. 2.9e-62;
 XX Matches 109; Conservative 42; Mismatches 47; Indels 0; Gaps 0;
 QY 213 TYGATLNCNMLAIQIKYDDYKIRGLPYLEVLCTITWRTLEITSRLLILVLPSATLKLKAVPP 272
 DB 1 TYGATRCNMLAIQISNDDTKLKLPPIEFFCVMWRPLEVISRVTLIAFFASLKLKSLPV 60
 QY 273 LVLFNLITLILPWPWIKFWRSGQMPNNIEKNSRVTGLVVLISVTLYAGINFSCSWALQ 332
 DB 61 LLIIVYFVSLIAPWLPFWSGHLPGKNNENSMVGTVMLPLITLYAANFSCSWAVL 120
 QY 333 RLADRLDVDCQNTGNGMGLHYSVRLVENVIMVLVEFKFFGKVLLNCHSLLALQIAYL 392
 DB 121 QLSDDKIIDGBQRWGRILHYSFQFENVMLVFFEGRTLNNCDSLIAVQLISYL 180
 QY 393 ISIDFMLLFFOYLHPLRS 410
 DB 181 LATGFMFLFYOLYPMQS 198

RESULT 7
 AAM65799 standard; Protein; 216 AA.
 XX

RESULT 6
 AAM53421
 ID AAM53421 standard; Protein; 216 AA.
 XX

RESULT 5
 AAM65799 standard; Protein; 216 AA.
 XX

RESULT 4
 AAM65799 standard; Protein; 216 AA.
 XX

RESULT 3
 AAM65799 standard; Protein; 216 AA.
 XX

RESULT 2
 AAM65799 standard; Protein; 216 AA.
 XX

RESULT 1
 AAM65799 standard; Protein; 216 AA.
 XX

AC	AAM65799;	XX	XX	Peptide #95 encoded by probe for measuring cervical gene expression.	
XX	06-NOV-2001 (first entry)	DT	XX	Probe; human; microarray; gene expression; cervical epithelial cell;	
DE	Human bone marrow expressed probe encoded protein SEQ ID NO: 26105.	XX	KW	Probe; human; microarray; gene expression; cervical epithelial cell;	
XX	Human; bone marrow expressed exon; gene expression analysis; probe;	KW	KW	cervical cancer.	
KW	microarray; cancer; leukaemia; lymphoma; myeloma.	XX	XX		
XX	Homo sapiens.	OS	OS	Homo sapiens.	
OS	WO200157278-A2.	PN	PN	WO200157278-A2.	
XX	09-AUG-2001.	PD	XX	09-AUG-2001.	
XX	30-JAN-2001; 2001WO-US00668.	PF	XX	04-FEB-2000; 2000US-0180312.	
XX	04-FEB-2000; 2000US-0180312.	PR	XX	26-MAY-2000; 2000US-020456.	
PR	26-MAY-2000; 2000US-0207456.	PR	XX	30-JUN-2000; 2000US-0608408.	
PR	03-AUG-2000; 2000US-0608408.	PR	XX	03-AUG-2000; 2000US-0623366.	
PR	03-AUG-2000; 2000US-0632366.	PR	XX	21-SEP-2000; 2000US-0234687.	
PR	21-SEP-2000; 2000US-0234687.	PR	XX	27-SEP-2000; 2000US-0226359.	
PR	04-OCT-2000; 2000US-0236359.	PR	XX	04-OCT-2000; 2000GB-0024263.	
XX	PA (MOLE-) MOLECULAR DYNAMICS INC.	PA	XX	PA (MOLE-) MOLECULAR DYNAMICS INC.	
XX	Penn SG, Hanzel DK, Chen W, Rank DR;	PI	XX	Penn SG, Hanzel DK, Chen W, Rank DR;	
XX	WPI; 2001-488900/53.	PA	XX	WPI; 2001-488900/53.	
XX	Human Genome-derived single exon nucleic acid probes useful for analyzing gene expression in human bone marrow -	PT	XX	Human genome-derived single exon nucleic acid probes useful for analyzing gene expression in human cervical epithelial cells -	
XX	Example 4; SEQ ID NO: 26105; 658pp + Sequence Listing; English.	PT	XX	Claim 27; SEQ ID NO 18487; 487pp; English.	
XX	The present invention provides a number of single exon nucleic acid probes which are derived from genomic sequences expressed in the human bone marrow. They can be used to measure gene expression in bone marrow samples, which may enable the improved diagnosis and treatment of cancers such as lymphoma, leukaemia and myeloma. The present sequence is a protein encoded by one of the probes of the invention.	PR	XX	The present invention relates to human single exon nucleic acid probe (SENPs; see AAI1008-AA12849). The present sequence is a peptide encoded by one such probe. The SENPs are derived from human HeLa cells. The SENPs can be used to produce a single exon microarray, which can be used for measuring human gene expression in a sample derived from human cervical epithelial cells. By measuring gene expression, the probes are thereby useful in grading and/or staging of diseases of the cervix, notably cervical cancer.	
XX	Sequence 216 AA;	SQ	XX	Note: The sequence data for this parent did not form part of the print specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences .	
XX	Query Match 26.2%; Score 607; DB 22; Length 216;	Query	XX	Query Match 26.2%; Score 607; DB 22; Length 216;	
XX	Best Local Similarity 55.1%; Pred. No. 2.9e-62;	Best Local Similarity 55.1%; Pred. No. 2.9e-62;	XX	Best Local Similarity 55.1%; Pred. No. 2.9e-62;	
XX	Matches 109; Conservative 42; Mismatches 47; Indels 0; Gaps 0;	Matches 109; Conservative 42; Mismatches 47; Indels 0; Gaps 0;	XX	Matches 109; Conservative 42; Mismatches 47; Indels 0; Gaps 0;	
Qy	213 TYGATLGNMIAQIYKDYKIRGKPLEVLCITIWTRLTITSRLLILVLFATLKLKAVPF 272	Qy	213 TYGATLGNMIAQIYKDYKIRGKPLEVLCITIWTRLTITSRLLILVLFATLKLKAVPF 272	Qy	213 TYGATLGNMIAQIYKDYKIRGKPLEVLCITIWTRLTITSRLLILVLFATLKLKAVPF 272
Db	1 TYGATRGNLIAQIISNDDTIKLPIPEFFCVMWREFLVEISRVTLAFFFASLRLKSLPV 60	Db	1 TYGATRGNLIAQIISNDDTIKLPIPEFFCVMWREFLVEISRVTLAFFFASLRLKSLPV 60	Db	1 TYGATRGNLIAQIISNDDTIKLPIPEFFCVMWREFLVEISRVTLAFFFASLRLKSLPV 60
Qy	273 LVINFLLILFEPWIKMRSQAGMPPNNIEKRNFSRVTGLVYLISITVILYAGINFSCWMSAQI 332	Qy	273 LVINFLLILFEPWIKMRSQAGMPPNNIEKRNFSRVTGLVYLISITVILYAGINFSCWMSAQI 332	Qy	273 LVINFLLILFEPWIKMRSQAGMPPNNIEKRNFSRVTGLVYLISITVILYAGINFSCWMSAQI 332
Db	61 LLIYIYVSLAFLPWLPEFKSGAHLPGKRNENNSNNGTVMLFLITLYYAANFSCWMSAQI 120	Db	61 LLIYIYVSLAFLPWLPEFKSGAHLPGKRNENNSNNGTVMLFLITLYYAANFSCWMSAQI 120	Db	61 LLIYIYVSLAFLPWLPEFKSGAHLPGKRNENNSNNGTVMLFLITLYYAANFSCWMSAQI 120
Qy	333 RLADRDLVQDGCONWGAGLHSVRLVENVIMWLVFKFEGKVYLNTCHS1ALQQLIAYL 392	Qy	333 RLADRDLVQDGCONWGAGLHSVRLVENVIMWLVFKFEGKVYLNTCHS1ALQQLIAYL 392	Qy	333 RLADRDLVQDGCONWGAGLHSVRLVENVIMWLVFKFEGKVYLNTCHS1ALQQLIAYL 392
Db	121 QSDPKLITGQWRGWRHLHSYSPQFLENVIMWLVFPFGKTLLNCDSLIRVQIISYI 180	Db	121 QSDPKLITGQWRGWRHLHSYSPQFLENVIMWLVFPFGKTLLNCDSLIRVQIISYI 180	Db	121 QSDPKLITGQWRGWRHLHSYSPQFLENVIMWLVFPFGKTLLNCDSLIRVQIISYI 180
Qy	393 ISIDFMLLFQYIHLPLRS 410	Qy	393 ISIDFMLLFQYIHLPLRS 410	Qy	393 ISIDFMLLFQYIHLPLRS 410
Db	181 LATGFMFLPQYIHLPLRS 198	Db	181 LATGFMFLPQYIHLPLRS 198	Db	181 LATGFMFLPQYIHLPLRS 198
RESULT 8					
AAM13661					
ID	AAM13661 standard; Protein; 216 AA.	XX	XX	XX	
AC	AAM13661;	XX	XX	XX	
XX	12-OCT-2001 (first entry)	DT	XX	AC	
RESULT 9					
AAM26060					
ID	AAM26060 standard; Protein; 216 AA.	XX	XX	XX	
AC	AAM26060;	XX	XX	XX	
XX	12-OCT-2001	DT	XX	AC	

XX 17-OCT-2001 (First entry)

XX Peptide #97 encoded by probe for measuring placental gene expression.

DE XX Probe; human; breast disease; breast cancer; development disorder;

XX KW inflammatory disease; proliferative breast disease; non-carcinoma tumour.

XX OS Homo sapiens.

XX WO200157270-A2.

XX PD 09-AUG-2001.

XX XX

XX PF 29-JAN-2001; 2001WO-US00661.

XX XX

XX PR 04-FEB-2000; 2000US-0180312.

XX PR 26-MAY-2000; 2000US-0207456.

XX PR 30-JUN-2000; 2000US-0608408.

XX PR 03-AUG-2000; 2000US-0632366.

XX PR 03-AUG-2000; 2000US-0632359.

XX PR 21-SEP-2000; 2000US-0234687.

XX PR 21-SEP-2000; 2000US-0234687.

XX PR 27-SEP-2000; 2000US-0236359.

XX PR 04-OCT-2000; 2000GB-002463.

PA (MOLE-) MOLECULAR DYNAMICS INC.

XX PI Penn SG, Hanzel DK, Chen W, Rank DR;

XX DR 2001-476286/51.

XX PT Novel single exon nucleic acid probe used to measuring gene expression in a human breast -

XX XX

PS Claim 27; SEQ ID No 10151; 322pp; English.

XX CC The present invention relates to novel single exon nucleic acid probes (see AA100010-PA110067). The present sequence is a peptide encoded by one such probe. The probes are useful for measuring human gene expression in a human breast sample, where the probe hybridises to a high stringency to a nucleic acid expressed in the human breast. The probes are useful for predicting, diagnosing, grading, staging, monitoring and prognosis diseases of the human breast, particularly those diseases with polygenic aetiology. The diseases include: breast cancer, disorders of development, inflammatory diseases of the breast, fibrotic changes, proliferative breast disease and non-carcinoma tumours.

CC Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at [fp.wipo.int/pub/published_pct_sequences](http://wipo.int/pub/published_pct_sequences).

XX SQ Sequence 216 AA;

XX Best Local Similarity 55.1%; Pred. No. 2.9e-62;

XX Matches 109; Conservative 42; Mismatches 47; Indels 0; Gaps 0;

XX Sequence 216 AA;

Query Match 26.2%; Score 607; DB 22; Length 216;

XX Best Local Similarity 55.1%; Pred. No. 2.9e-62;

XX Matches 109; Conservative 42; Mismatches 47; Indels 0; Gaps 0;

Qy 213 TYGATLCNMIAIQKYYDKYKIRGPLEVLCTITWLTETSLRLLVLPSATLKLKAVPF 272

Db 1 TYGATRCNMIAIQKYYDKYKIRGPLEVLCTITWLTETSLRLLVLPSATLKLKAVPF 272

Qy 273 LVLNFLILIPBPWPKWRSSAQMPNNIEKNSVGTLLVLLISVTTLYAGINFSCHSALQL 332

Db 1 LLIYFVSLAPWLPFWKSGAHLPGKNNNSMVGTVLMLFLITLYAAINFSCWSAVKL 120

Qy 333 RLADRLDVDKGQMGHMLGHYSVRLVENVIMVLFVKFFGTVKVLNYCHSIALQQLIAYL 392

Db 121 QLSDDKIIIDGRQRGRHLHYSFQLEVNIMVLFVFFGKTLNCCDSLIAVQLIISYL 180

Qy 393 ISIDFMLLFFOYLHPLRS 410

Db 181 LATGMLLFFOYLWQWS 198

RESULT 10

AAM01411

ID AAM01411 standard; Protein; 216 AA.

XX AC

XX DT 09-OCT-2001 (first entry)

RESULT 11

ABG3533

ID ABG3533 standard; Peptide; 216 AA.

XX

Qy 393 ISIDFMLLFFOYLHPLRS 410

Db 181 LATGMLLFFOYLWQWS 198

AC ABG35433;
 XX DT 19-AUG-2002 (first entry)
 XX Human peptide encoded by genome-derived single exon probe SEQ ID 25098.
 DE Human; single exon probe; asthma; lung cancer; COPD; ILD;
 chronic obstructive pulmonary disease; interstitial lung disease;
 familial idiopathic pulmonary fibrosis; neurofibromatosis;
 tuberous sclerosis; Gaucher's disease; Niemann-Pick disease;
 Hermansky-Pudlak syndrome; sarcoidosis; pulmonary haemosiderosis;
 pulmonary histiocytosis; lymphangioleimyomatosis; Karagener syndrome;
 pulmonary alveolar proteinosis; fibrocytic pulmonary dysplasia;
 pulmonary fibrosis; pulmonary hypertension;
 primary ciliary dyskinesia; pulmonary dysplasia;
 hyaline membrane disease.
 XX OS Homo sapiens.
 XX WO200186003-A2.
 XX PN XX
 PD 15-NOV-2001.
 XX PP 30-JAN-2001; 2001WO-US00665.
 XX PR 04-FEB-2000; 2000US-180312P.
 PR 26-MAY-2000; 2000US-207456P.
 PR 30-JUN-2000; 2000US-0608408.
 PR 03-AUG-2000; 2000US-0632366.
 PR 21-SEP-2000; 2000US-234687P.
 PR 27-SEP-2000; 2000US-236319P.
 PR 04-OCT-2000; 2000GB-0024263.
 PA (MOLE-) MOLECULAR DYNAMICS INC.
 XX Penn SG, Hanzel DK, Chen W, Rank DR;
 PI XX
 DR WPI: 2002-114183/15.
 XX PR Spatially-addressable set of single exon nucleic acid probes, used to
 PR measure gene expression in human lung samples -
 PS Claim 27: SEQ ID No 25098; 634pp; English.
 XX The invention relates to a spatially-addressable set of single exon
 nucleic acid probes for measuring gene expression in a sample derived
 from human lung comprising single exon nucleic acid probes having one of
 12614 nucleic acid sequences mentioned in the specification, or their
 complements or the 12387 open reading frames derived from the 12614
 probes. Also included are a microarray comprising the novel set of
 probes; the novel set of probes which hybridise at high stringency to a
 nucleic acid expressed in the human lung; measuring gene expression in a
 sample derived from human lung, comprising (a) contacting the array with
 a collection of detectably labeled nucleic acids derived from human lung
 mRNA, and (b) measuring the labeled nucleic acids derived from human lung
 the array; identifying exons in a eukaryotic genome, comprising
 (a) algorithmically predicting at least one exon from genomic sequences
 of the eukaryote; and (b) detecting the labeled nucleic acids derived from
 labeled nucleic acids from eukaryote lung mRNA, to a single exon probe
 having a fragment identical to the predicted exon, the probe is included,
 in the above mentioned microarray; assigning exons to a single gene,
 comprising (a) identifying exons from genomic sequence by the method
 above and (b) measuring the expression of each of the exons in several
 tissues and/or cell types using hybridisation to a single exon
 microarray having a probe with the exon, where a common pattern of
 expression of the exons in the tissues and/or cell types indicates that
 the exons should be assigned to a single gene; a peptide comprising one
 of 12011 sequences, mentioned in the specification, or encoded by the
 probes/open reading frames (ORF). The probes are used for gene
 analysis and for identifying exons in a gene, particularly
 using human lung derived mRNA and for the study of lung diseases
 such as asthma, lung cancer, chronic obstructive pulmonary disease
 (COPD), interstitial lung disease (ILD), familial idiopathic pulmonary
 fibrosis, neurofibromatosis, tuberous sclerosis, Gaucher's disease,
 CC Niemann-Pick disease, Hermansky-Pudlak syndrome, sarcoidosis, pulmonary
 haemosiderosis, pulmonary histiocytosis, lymphangioleimyomatosis,
 CC pulmonary alveolar proteinosis, Karagener syndrome, fibrocytic
 CC pulmonary dysplasia, primary ciliary dyskinesia, pulmonary hypertension
 CC and hyaline membrane disease. The present sequence is a peptide/protein
 CC encoded by a single exon probe of the invention.
 CC Note: The sequence data for this patent did not form part
 CC of the printed specification, but was obtained in electronic
 CC format directly from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.
 XX SQ Sequence 216 AA;
 XX Query Match 26.2%; Score 607; DB 23;
 Best Local Similarity 55.1%; Pred. No. 2.9e-22;
 Matches 109; Conservative 42; Mismatches 47; Index 0; Gaps 0;
 XX Qy 213 TYGATLNCNMIAIQIKYDDYKIRLGPLEVLCITITRLEITSRLLLVLFSATLKLKAVPF 272
 Db 1 TYGATRCNTIAIQISNDDTIKLPPIEFFCVMWRKPLEVSRVVTLAAFLASLKLKSLPV 60
 XX Qy 273 LVLFNLILFEPIWKFWRSQGMPNIEKNSRVTGLVVLISVTILYAGNFNSCWSALQL 332
 Db 61 LLIITYFVSLIAPWLFWKSCAHLPGKNNKNSNNMYGTVLMFLITLILYYAAINFSCNSAVKL 120
 XX Qy 333 RLADBDLVDKGONGHMGHLYHSVRLVENVIMVLFKPFGTKLVNLNCHSITALQLIAYL 392
 Db 121 QLSDDKIKIDGRQRQNRHRLHYSQFLENYIMILYFRFFGGKTLINCCDSLIAVQLIISYL 180
 XX Qy 393 ISIDEMFLLPFOYUHPLRS 410
 Db 181 LATGFMLLPQYLIPWQS 198

RESULT 12
 AAU86530 standard; Protein: 125 AA.
 ID AAU86530
 XX AC AAU86530;
 XX DT 21-MAY-2002 (first entry)
 XX DE Novel human connective tissue related polypeptide #96.
 XX KW Human; connective tissue related disorder; cancer; cytosatic.
 XX OS Homo sapiens.
 XX PN WO200155343-A1.
 XX PD 02-AUG-2001.
 XX PR 17-JAN-2001; 2001WO-US01322.
 XX PR 31-JAN-2000; 2000US-0179065.
 PR 24-FEB-2000; 2000US-0180128.
 PR 02-MAR-2000; 2000US-018664.
 PR 16-MAR-2000; 2000US-018650.
 PR 17-MAR-2000; 2000US-018974.
 PR 18-APR-2000; 2000US-019076.
 PR 19-MAY-2000; 2000US-020515.
 PR 07-JUN-2000; 2000US-020967.
 PR 28-JUN-2000; 2000US-0211886.
 PR 30-JUN-2000; 2000US-0215135.
 PR 07-JUL-2000; 2000US-0216647.
 PR 07-JUL-2000; 2000US-0216880.
 PR 11-JUL-2000; 2000US-021487.
 PR 14-JUL-2000; 2000US-021896.
 PR 26-JUL-2000; 2000US-0220963.
 PR 26-JUL-2000; 2000US-022064.
 PR 14-AUG-2000; 2000US-0224518.

PR 14-AUG-2000; 2000US-0224519.
 PR 14-AUG-2000; 2000US-0225213.
 PR 14-AUG-2000; 2000US-0225214.
 PR 14-AUG-2000; 2000US-0225226.
 PR 14-AUG-2000; 2000US-0225267.
 PR 14-AUG-2000; 2000US-0225268.
 PR 14-AUG-2000; 2000US-0225270.
 PR 14-AUG-2000; 2000US-0225447.
 PR 14-AUG-2000; 2000US-0225737.
 PR 14-AUG-2000; 2000US-0225758.
 PR 14-AUG-2000; 2000US-0225759.
 PR 18-AUG-2000; 2000US-0226279.
 PR 01-SEP-2000; 2000US-0226881.
 PR 22-AUG-2000; 2000US-0226888.
 PR 22-AUG-2000; 2000US-0227782.
 PR 23-AUG-2000; 2000US-0227709.
 PR 30-AUG-2000; 2000US-0228934.
 PR 01-SEP-2000; 2000US-0229267.
 PR 01-SEP-2000; 2000US-0229343.
 PR 01-SEP-2000; 2000US-0229344.
 PR 01-SEP-2000; 2000US-0229345.
 PR 05-SEP-2000; 2000US-0229509.
 PR 05-SEP-2000; 2000US-0229513.
 PR 06-SEP-2000; 2000US-0230437.
 PR 06-SEP-2000; 2000US-0230438.
 PR 08-SEP-2000; 2000US-0231244.
 PR 08-SEP-2000; 2000US-0231245.
 PR 08-SEP-2000; 2000US-0231413.
 PR 08-SEP-2000; 2000US-0231414.
 PR 08-SEP-2000; 2000US-032080.
 PR 12-SEP-2000; 2000US-0232081.
 PR 14-SEP-2000; 2000US-0231568.
 PR 14-SEP-2000; 2000US-0323297.
 PR 14-SEP-2000; 2000US-0232398.
 PR 14-SEP-2000; 2000US-0232399.
 PR 14-SEP-2000; 2000US-032400.
 PR 14-SEP-2000; 2000US-0232401.
 PR 14-SEP-2000; 2000US-0233063.
 PR 14-SEP-2000; 2000US-0233064.
 PR 21-SEP-2000; 2000US-0233423.
 PR 21-SEP-2000; 2000US-0234274.
 PR 25-SEP-2000; 2000US-0234937.
 PR 26-SEP-2000; 2000US-0234938.
 PR 27-SEP-2000; 2000US-0235344.
 PR 27-SEP-2000; 2000US-0235334.
 PR 29-SEP-2000; 2000US-0235836.
 PR 29-SEP-2000; 2000US-0236327.
 PR 29-SEP-2000; 2000US-0236368.
 PR 29-SEP-2000; 2000US-0323637.
 PR 02-OCT-2000; 2000US-0241221.
 PR 02-OCT-2000; 2000US-0241221.
 PR 20-OCT-2000; 2000US-0241221.
 PR 20-OCT-2000; 2000US-0241785.
 PR 20-OCT-2000; 2000US-0241786.
 PR 20-OCT-2000; 2000US-0241808.
 PR 20-OCT-2000; 2000US-041808.
 PR 01-NOV-2000; 2000US-0244517.
 PR 08-NOV-2000; 2000US-0246474.
 PR 08-NOV-2000; 2000US-0246475.
 PR 08-NOV-2000; 2000US-0246476.
 PR 08-NOV-2000; 2000US-0246527.
 PR 08-NOV-2000; 2000US-0246528.
 PR 08-NOV-2000; 2000US-0246532.
 PR 08-NOV-2000; 2000US-0246509.
 PR 08-NOV-2000; 2000US-0246610.
 PR 08-NOV-2000; 2000US-0246711.
 PR 08-NOV-2000; 2000US-0246613.
 PR 08-NOV-2000; 2000US-0246907.
 PR 17-NOV-2000; 2000US-0249008.
 PR 17-NOV-2000; 2000US-0249209.
 PR 17-NOV-2000; 2000US-0249210.
 PR 17-NOV-2000; 2000US-0249211.
 PR 17-NOV-2000; 2000US-0249212.
 PR 17-NOV-2000; 2000US-0249213.
 PR 17-NOV-2000; 2000US-0249214.
 PR 17-NOV-2000; 2000US-0249215.
 PR 17-NOV-2000; 2000US-0249216.
 PR 17-NOV-2000; 2000US-0249217.
 PR 17-NOV-2000; 2000US-0249218.
 PR 17-NOV-2000; 2000US-0249444.
 PR 17-NOV-2000; 2000US-0249445.
 PR 17-NOV-2000; 2000US-0249564.
 PR 17-NOV-2000; 2000US-0249616.
 PR 17-NOV-2000; 2000US-0249617.
 PR 17-NOV-2000; 2000US-0249618.
 PR 17-NOV-2000; 2000US-0249700.
 PR 01-DEC-2000; 2000US-0250160.
 PR 01-DEC-2000; 2000US-0250391.
 PR 05-DEC-2000; 2000US-0251030.
 PR 05-DEC-2000; 2000US-0251198.
 PR 05-DEC-2000; 2000US-0256719.
 PR 06-DEC-2000; 2000US-051179.
 PR 08-DEC-2000; 2000US-0251056.
 PR 08-DEC-2000; 2000US-0251868.
 PR 08-DEC-2000; 2000US-0251869.
 PR 08-DEC-2000; 2000US-0251889.
 PR 08-DEC-2000; 2000US-0251990.
 PR 11-DEC-2000; 2000US-0254997.
 PR 05-JAN-2001; 2001US-0259678.
 XX
 PA (HUMA-) HUMAN GENOME SCI INC.
 XX
 PI Rosen CA, Barash SC, Ruben SM;
 XX
 DR WPI; 2001-565190/63.
 XX
 N-PSB; ARK41708.
 XX
 PS Claim 11; SEQ ID NO 595; 673PP; English.
 XX
 CC The present invention relates to the isolation of novel human connective tissue related polypeptides and the polynucleotide (cDNA and genomic) sequences encoding them. The sequences of the invention are useful in the diagnosis, treatment, prevention and/or prognosis of diseases associated with connective tissue(s), including cancer. The polynucleotide sequences of the invention are also useful in gene therapy. AAU86433-AAU86923 represent the novel human connective tissue related polypeptides.
 CC Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at <http://wipo.int/patents/search/pct.html>.
 CC
 XX Sequence 125 AA;
 XX Query Match 24.7%; Score 572; DB 22; Length 125;

Best Local Similarity 94.7%; Pred. No. 1.6e-58; Matches 108; Conservative 1; Mismatches 5; Indels 0; Gaps 0;	Db	2	NSNNVGTVMFLITLILYAAINFSCWSAVLQLSDDKIILGRQRNGHRIHYSFQLENN	61
Qy 312 LISTILYAGINFSCWSALQLRLAARDLVDKGONGHMGHLYSFLVENVIMLVFKPFG 371.	Qy	362	IMVLVFKFPGVVLNYCHSLALQIILALIYALISIDFMLLFQYLPRLRS	410
Db 12 LISTILYAGINFSCWSALQLRLAARDLVDKGONGHMGHLYSFLVENVIMLVFKEXG 71	Db	62	IMILVFRFPGKTLINCCDSLIAVQLIISLILATGFMLLRYQYLYPWQS	110
Qy 372 VKVLLNYCHSLALQIILALIYALISIDFMLLFQYLPRLRSLETANVVDYLHCVCC 425				
Db 72 VKVLLNYCHSLALQIILALIYALISIDFMLLFQYLPRLRSLETANVVDYLHCVCC 125				
RESULT 13				
ABB22596 standard; Protein: 128 AA.				
XX	XX	XX	XX	XX
AC ABB22596;	AC	AC	AC	AC
XX	XX	XX	XX	XX
DT 23-JAN-2002 (first entry)	DT	05-NOV-2001 (first entry)	DT	05-NOV-2001 (first entry)
XX	XX	XX	XX	XX
DE Protein #4595 encoded by probe for measuring heart cell gene expression.	DE	Human brain expressed single exon probe encoded protein SEQ ID NO: 30107.	DE	Human brain expressed single exon probe encoded protein SEQ ID NO: 30107.
XX	XX	XX	XX	XX
KW Human; gene expression; heart; microarray; vascular system;	KW	KW Human; brain expressed exon; gene expression analysis; probe;	KW	KW Human; brain expressed exon; gene expression analysis; probe;
KW cardiovascular disease; hypertension; cardiac arrhythmia;	KW	KW microarray; Alzheimer's disease; multiple sclerosis; schizophrenia;	KW	KW microarray; Alzheimer's disease; multiple sclerosis; schizophrenia;
KW congenital heart disease.	KW	KW epilepsy; cancer.	KW	KW epilepsy; cancer.
XX	XX	XX	XX	XX
OS Homo sapiens.	OS	OS Homo sapiens.	OS	OS Homo sapiens.
XX	XX	XX	XX	XX
WO200157274-A2.	WO200157274-A2.	WO200157274-A2.	WO200157274-A2.	WO200157274-A2.
XX	XX	XX	XX	XX
PN	PN	PN	PN	PN
XX	XX	XX	XX	XX
PD 09-AUG-2001.	PD 09-AUG-2001.	PD 09-AUG-2001.	PD 09-AUG-2001.	PD 09-AUG-2001.
XX	XX	XX	XX	XX
PP 30-JAN-2001; 2001WO-US00666.	PP 30-JAN-2001; 2001WO-US00666.	PP 30-JAN-2001; 2001WO-US00666.	PP 30-JAN-2001; 2001WO-US00666.	PP 30-JAN-2001; 2001WO-US00666.
XX	XX	XX	XX	XX
PR 04-FEB-2000; 2000US-0180312.	PR 04-FEB-2000; 2000US-0180312.	PR 04-FEB-2000; 2000US-0180312.	PR 04-FEB-2000; 2000US-0180312.	PR 04-FEB-2000; 2000US-0180312.
PR 26-MAY-2000; 2000US-0207456.	PR 26-MAY-2000; 2000US-0207456.	PR 26-MAY-2000; 2000US-0207456.	PR 26-MAY-2000; 2000US-0207456.	PR 26-MAY-2000; 2000US-0207456.
PR 30-JUN-2000; 2000US-0608408.	PR 30-JUN-2000; 2000US-0608408.	PR 30-JUN-2000; 2000US-0608408.	PR 30-JUN-2000; 2000US-0608408.	PR 30-JUN-2000; 2000US-0608408.
PR 03-AUG-2000; 2000US-0632466.	PR 03-AUG-2000; 2000US-0632466.	PR 03-AUG-2000; 2000US-0632466.	PR 03-AUG-2000; 2000US-0632466.	PR 03-AUG-2000; 2000US-0632466.
PR 21-SEP-2000; 2000US-0234687.	PR 21-SEP-2000; 2000US-0234687.	PR 21-SEP-2000; 2000US-0234687.	PR 21-SEP-2000; 2000US-0234687.	PR 21-SEP-2000; 2000US-0234687.
PR 27-SEP-2000; 2000US-0234659.	PR 27-SEP-2000; 2000US-0234659.	PR 27-SEP-2000; 2000US-0234659.	PR 27-SEP-2000; 2000US-0234659.	PR 27-SEP-2000; 2000US-0234659.
PR 04-OCT-2000; 2000US-0024263.	PR 04-OCT-2000; 2000US-0024263.	PR 04-OCT-2000; 2000US-0024263.	PR 04-OCT-2000; 2000US-0024263.	PR 04-OCT-2000; 2000US-0024263.
XX	XX	XX	XX	XX
PA (MOLE-) MOLECULAR DYNAMICS INC.	PA (MOLE-) MOLECULAR DYNAMICS INC.	PA (MOLE-) MOLECULAR DYNAMICS INC.	PA (MOLE-) MOLECULAR DYNAMICS INC.	PA (MOLE-) MOLECULAR DYNAMICS INC.
XX	XX	XX	XX	XX
PI Penn SG, Hanzel DK, Chen W, Rank DR;	PI Penn SG, Hanzel DK, Chen W, Rank DR;	PI Penn SG, Hanzel DK, Chen W, Rank DR;	PI Penn SG, Hanzel DK, Chen W, Rank DR;	PI Penn SG, Hanzel DK, Chen W, Rank DR;
XX	XX	XX	XX	XX
DR WPI; 2001-488699/53.	DR WPI; 2001-488699/53.	DR WPI; 2001-488699/53.	DR WPI; 2001-488699/53.	DR WPI; 2001-488699/53.
XX	XX	XX	XX	XX
PT Single exon nucleic acid probes for analyzing gene expression in human hearts -	PT Single exon nucleic acid probes for analyzing gene expression in human hearts -	PT Single exon nucleic acid probes for analyzing gene expression in human hearts -	PT Single exon nucleic acid probes for analyzing gene expression in human hearts -	PT Single exon nucleic acid probes for analyzing gene expression in human hearts -
XX	XX	XX	XX	XX
PS Claim 15: SEQ ID NO 24366; 530pp; English.	PS Claim 15: SEQ ID NO 24366; 530pp; English.	PS Claim 15: SEQ ID NO 24366; 530pp; English.	PS Claim 15: SEQ ID NO 24366; 530pp; English.	PS Claim 15: SEQ ID NO 24366; 530pp; English.
XX	XX	XX	XX	XX
CC The present invention relates to single exon nucleic acid probes for measuring human gene expression in a sample derived from human heart (see ABA1535/ABA41305). The present sequence is a protein encoded by one such probe. The probes may be used for predicting, measuring and displaying gene expression in samples derived from the human heart via microarrays.	CC By measuring gene expression, the probes are useful for predicting, diagnosing, grading, staging, monitoring and prognosis diseases of the human heart and vascular system e.g. cardiovascular disease, hypertension, cardiac arrhythmias and congenital heart disease.	CC Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp://wipo.int/pub/published_pct_sequences .	CC Sequence 128 AA;	CC Sequence 128 AA;
PS 15.3%; Score 354; DB 22; Length 128;	PS 15.3%; Score 354; DB 22; Length 128;	PS 15.3%; Score 354; DB 22; Length 128;	PS 15.3%; Score 354; DB 22; Length 128;	PS 15.3%; Score 354; DB 22; Length 128;
XX	XX	XX	XX	XX
CC Best Local Similarity 59.6%; Pred. No. 5.7e-33; Mismatches 23; Indels 0; Gaps 0;	CC Best Local Similarity 59.6%; Pred. No. 5.7e-33; Mismatches 23; Indels 0; Gaps 0;	CC Best Local Similarity 59.6%; Pred. No. 5.7e-33; Mismatches 23; Indels 0; Gaps 0;	CC Best Local Similarity 59.6%; Pred. No. 5.7e-33; Mismatches 23; Indels 0; Gaps 0;	CC Best Local Similarity 59.6%; Pred. No. 5.7e-33; Mismatches 23; Indels 0; Gaps 0;
XX	XX	XX	XX	XX
SO Query Match 15.3%; Score 354; DB 22; Length 128;	SO Query Match 15.3%; Score 354; DB 22; Length 128;	SO Query Match 15.3%; Score 354; DB 22; Length 128;	SO Query Match 15.3%; Score 354; DB 22; Length 128;	SO Query Match 15.3%; Score 354; DB 22; Length 128;
XX	XX	XX	XX	XX
CC Best Local Similarity 59.6%; Pred. No. 5.7e-33; Mismatches 23; Indels 0; Gaps 0;	CC Best Local Similarity 59.6%; Pred. No. 5.7e-33; Mismatches 23; Indels 0; Gaps 0;	CC Best Local Similarity 59.6%; Pred. No. 5.7e-33; Mismatches 23; Indels 0; Gaps 0;	CC Best Local Similarity 59.6%; Pred. No. 5.7e-33; Mismatches 23; Indels 0; Gaps 0;	CC Best Local Similarity 59.6%; Pred. No. 5.7e-33; Mismatches 23; Indels 0; Gaps 0;
XX	XX	XX	XX	XX
SO Sequence 128 AA;	SO Sequence 128 AA;	SO Sequence 128 AA;	SO Sequence 128 AA;	SO Sequence 128 AA;
XX	XX	XX	XX	XX
Query Match 15.3%; Score 354; DB 22; Length 128;	Query Match 15.3%; Score 354; DB 22; Length 128;	Query Match 15.3%; Score 354; DB 22; Length 128;	Query Match 15.3%; Score 354; DB 22; Length 128;	Query Match 15.3%; Score 354; DB 22; Length 128;
Best Local Similarity 59.6%; Pred. No. 5.7e-33; Mismatches 23; Indels 0; Gaps 0;	Best Local Similarity 59.6%; Pred. No. 5.7e-33; Mismatches 23; Indels 0; Gaps 0;	Best Local Similarity 59.6%; Pred. No. 5.7e-33; Mismatches 23; Indels 0; Gaps 0;	Best Local Similarity 59.6%; Pred. No. 5.7e-33; Mismatches 23; Indels 0; Gaps 0;	Best Local Similarity 59.6%; Pred. No. 5.7e-33; Mismatches 23; Indels 0; Gaps 0;
XX	XX	XX	XX	XX
SO Query 302 NFSRVTGLVLLISITLYAGINFSCWSALQLRLAARDLVDKGONGHMGHYSVRLVENV 361.	SO Query 302 NFSRVTGLVLLISITLYAGINFSCWSALQLRLAARDLVDKGONGHMGHYSVRLVENV 361.	SO Query 302 NFSRVTGLVLLISITLYAGINFSCWSALQLRLAARDLVDKGONGHMGHYSVRLVENV 361.	SO Query 302 NFSRVTGLVLLISITLYAGINFSCWSALQLRLAARDLVDKGONGHMGHYSVRLVENV 361.	SO Query 302 NFSRVTGLVLLISITLYAGINFSCWSALQLRLAARDLVDKGONGHMGHYSVRLVENV 361.
XX	XX	XX	XX	XX
DB 62 IMILVFRFPGKTLINCCDSLIAVQLIISLILATGFMLLRYQYLYPWQS 110	DB 62 IMILVFRFPGKTLINCCDSLIAVQLIISLILATGFMLLRYQYLYPWQS 110	DB 62 IMILVFRFPGKTLINCCDSLIAVQLIISLILATGFMLLRYQYLYPWQS 110	DB 62 IMILVFRFPGKTLINCCDSLIAVQLIISLILATGFMLLRYQYLYPWQS 110	DB 62 IMILVFRFPGKTLINCCDSLIAVQLIISLILATGFMLLRYQYLYPWQS 110
XX	XX	XX	XX	XX
RESULT 15	RESULT 15	RESULT 15	RESULT 15	RESULT 15

Search completed: April 1, 2003, 08:47:08
 Job time : 77 secs

ABB29870
 ID ABB29870 standard; Peptide; 86 AA.
 AC ABB29870;
 XX
 DT 01-FEB-2002 (first entry)
 DE Peptide #2521 encoded by breast cell single exon nucleic acid probe.
 XX
 Human; microarray; single exon probe; gene expression; breast;
 disease; cancer.
 XX
 OS Homo sapiens.
 XX
 PN WO200157271-A2.
 XX
 PD 09-AUG-2001.
 XX
 PP 30-JAN-2001; 2001WO-US00662.
 XX
 PR 04-FEBB-2000; 2000US-0180312.
 PR 26-MAY-2000; 2000US-0207456.
 PR 30-JUN-2000; 2000US-1608408.
 PR 03-AUG-2000; 2000US-0632266.
 PR 21-SEP-2000; 2000US-0234487.
 PR 27-SEP-2000; 2000US-0236559.
 PR 04-OCT-2000; 2000US-0024263.
 XX
 (MOLE-B) MOLECULAR DYNAMICS INC.
 XX
 PI Penn SG, Hanzel DK, Chen W, Rank DR;
 XX
 WPI: 2001-496933/54.
 XX
 New spatially-addressable set of single exon nucleic acid probes,
 PT useful for measuring gene expression in sample derived from human
 PT breast, comprises number of single exon nucleic acid probes -
 XX
 PS Claim 27: SEQ ID NO 12838; 327pp + sequence listing: English.
 XX
 The invention relates to a spatially-addressable set of single exon
 CC nucleic acid probes for measuring gene expression in a sample derived
 CC from human breast and BR 474 cells. The method involves contacting
 CC the probes with a collection of detectably labelled nucleic acids
 CC derived from mRNA of human breast, and then measuring the label
 CC bound to each probe of the microarray. The probes are useful for
 CC verifying the expression of regions of genomic DNA predicted to
 CC encode proteins. They are useful for gene discovery, and for
 CC determining predisposition and/or prognosis breast disease. Gene
 CC expression analysis is useful for assessing the toxicity of chemical
 CC agents on cells. The microarray of this invention presents a far greater
 CC diversity of probes for measuring gene expression, with far less bias
 CC than expressed sequence tag microarrays. The method is suitable for
 CC rapid production of functional information from genomic sequence. The
 CC present sequence is a peptide encoded by a single exon nucleic acid
 CC probe of the invention.
 CC Note: The sequence data for this patent did not form part of the
 CC printed specification, but was obtained in electronic format directly
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 SQ Sequence 86 AA;
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 Query Match 7.5%; Score 174.5; DB 22; Length 86;
 Best Local Similarity 53.4%; Pred. No. 3.3e-12;
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 Qy 189 YVSLISAEVPLGR 201
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